

Algebra I SOL Study Sheet

Basic Graphing Concepts

Coordinate Point: (x, y)

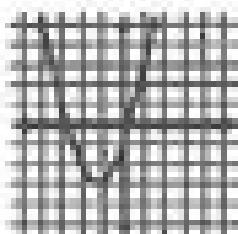
Domain: set of all x values

Range: set of all y values

Find the domain and range of the graph

Domain: all real numbers

Range: all real numbers
greater than -3



X-intercept: where the graph crosses the x -axis
 $(x, 0)$

Y-intercept: where the graph crosses the y -axis
 $(0, y)$



Commutative: Change Order

Associative: Regroup and change ()

Distributive Property: Multiply through ()

Additive Identity:

Multiplicative Identity:

Additive Inverse:

Multiplicative Inverse:

Reflexive:

Symmetric:

Transitive:

Substitution: Plug number in for the variable

Properties

$$a + b = b + a$$

$$(a + b) + c = a + (b + c)$$

$$a(b + c) = ab + ac$$

$$a + 0 = a$$

$$a \cdot 1 = a$$

$$a + (-a) = 0$$

$$a \cdot \frac{1}{a} = 1$$

$$a = a$$

$$\text{If } a = b, \text{ then } b = a$$

$$\text{If } a = b \text{ and } b = c, \text{ then } a = c$$

$$\text{Evaluate } -2x + 1 \text{ if } x = 3$$

$$-2(3) + 1 = -6 + 1 = -5$$

Relations and Functions

Representative Relations

A relation can be represented in the following ways

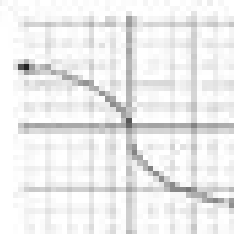
Ordered Pairs	Table	Graph	Mapping Diagram								
$(-3, 2)$ $(-2, -2)$ $(0, 1)$ $(3, 4)$	<table><tr><td>-3</td><td>2</td></tr><tr><td>-2</td><td>-2</td></tr><tr><td>0</td><td>1</td></tr><tr><td>3</td><td>4</td></tr></table>	-3	2	-2	-2	0	1	3	4		
-3	2										
-2	-2										
0	1										
3	4										

Function: is a relation where the x values do not repeat. It also passes the vertical line test when looking at a graph.

Function

$$a) \{(-3, 4), (-4, 5), (5, 4)\}$$

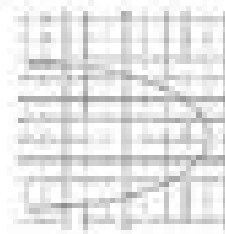
b)



Not a Function

$$a) \{(-3, -4), (3, 0), (-5, 4)\}$$

b)



Defining Functions

Function Notation: $f(x) = y$

Direct, Inverse, and Joint Variation Equations

- Direct Variation:** $y = kx$, where k is a nonzero constant of variation.
- Inverse Variation:** $y = \frac{k}{x}$ or $xy = k$ where $k \neq 0$
- Joint Variation:** $y = kxz$

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Resources in Education ,2001-04 **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office,1973 *Subject Guide to Books in Print* ,1997 **Wise Social Studies in an Age of High-Stakes Testing** Elizabeth Anne Yeager,O. L. Davis,2005-08-01 The chapters in this volume illustrate how teachers are bringing creativity

higher order thinking and meaningful learning activities into particular school settings despite pressures of standards and testing We chose the word wise for the title of this book and we use it frequently to describe the pedagogical practices we have identified The words powerful and ambitious are used as well The larger point as Keith C Barton makes in his chapter is that there is no necessary connection between content standards and high stakes tests on the one hand and lowlevel rote instruction on the other He reminds us as Thornton 1991 and Wiggins 1987 previously have argued that teachers play a crucial role in mediating educational policy and their intentions and interpretations have at least as much influence on classroom practice as does the content of standards and highstakes tests Barton also asserts that this makes it all the more crucial to identify the wisdom of practice that enables teachers to engage students in powerful educational experiences

The 1984 Guide to the Evaluation of Educational Experiences in the Armed Services ,1984 Continuous
Nonlinear Optimization for Engineering Applications in GAMS Technology Neculai Andrei,2017-12-04 This book presents the theoretical details and computational performances of algorithms used for solving continuous nonlinear optimization applications imbedded in GAMS Aimed toward scientists and graduate students who utilize optimization methods to model and solve problems in mathematical programming operations research business engineering and industry this book enables readers with a background in nonlinear optimization and linear algebra to use GAMS technology to understand and utilize its important capabilities to optimize algorithms for modeling and solving complex large scale continuous nonlinear optimization problems or applications Beginning with an overview of constrained nonlinear optimization methods this book moves on to illustrate key aspects of mathematical modeling through modeling technologies based on algebraically oriented modeling languages Next the main feature of GAMS an algebraically oriented language that allows for high level algebraic representation of mathematical optimization models is introduced to model and solve continuous nonlinear optimization applications More than 15 real nonlinear optimization applications in algebraic and GAMS representation are presented which are used to illustrate the performances of the algorithms described in this book Theoretical and computational results methods and techniques effective for solving nonlinear optimization problems are detailed through the algorithms MINOS KNITRO CONOPT SNOPT and IPOPT which work in GAMS technology Notices of the American Mathematical Society
 American Mathematical Society,1984 Contains articles of significant interest to mathematicians including reports on current mathematical research Saturday Review ,1857 *El-Hi Textbooks and Serials in Print* ,2006 *Votes & Proceedings*
 New South Wales. Parliament. Legislative Council,1876 Leading Research in Educational Administration Michael DiPaola,Patrick B. Forsyth,2011-06-01 Leading Research in Educational Administration A Festschrift for Wayne K Hoy is the tenth in a series on research and theory dedicated to advancing our understanding of schools through empirical study and theoretical analysis that was initiated by Wayne and Cecil G Miskel This tenth anniversary edition honors and celebrates the research leadership Wayne has provided in the field of educational administration through his distinguished career The

festschrift is organized around the analysis of school contexts and includes constructs Wayne and his protégés have studied and researched climate trust efficacy academic optimism organizational citizenship and mindfulness It concludes with the work of colleagues on the salient contemporary issues of innovation power leadership succession and several others focused on improving schools Chapter authors all have close connections to Wayne former students and their students as well as colleagues and friends

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